

## CONTENTS OF VOLUME 16

### *Numbers 1-3*

#### **Special Issue: Optimum Design of Composite Structures**

Foreword	v
Preface	vii
A New Approach to Structural Optimization R. JONES, M. HELLER, J. G. SPARROW & T. G. RYALL (Australia)	1
A Buckling Analysis Capability for Use in the Design of Composite Prismatic Plate Structures D. J. DAWE & V. PESHKAM (UK)	33
Strain and Stress Analysis in Tapered Laminated Composite Structures A. MIRAVETE (Spain)	65
Optimum Design Considerations for Mechanically Fastened Composite Joints W. S. ARNOLD, I. H. MARSHALL & J. WOOD (UK)	85
Iterative Preliminary Design Tools for Composite Structures S. R. HALL (Canada)	103
Optimisation of Adhesive Bonded Composite Tubular Sections L. HOLLOWAY, A. ROMHI & M. GUNN (UK)	125
Developments in the Acoustic Fatigue Design Process for Composite Aircraft Structures R. G. WHITE (UK)	171
Developing a Focused Design Methodology for Composite Material Systems O. O. OCHOA (USA)	193
Design and Manufacturing Criteria for High Precision Composite Antenna Reflectors. Prediction of the Residual Distortions after the Manufacturing Process P. CIRESE, M. MARCHETTI & S. SGUBINI (Italy)	209
Some Computational and Experimental Aspects of the Optimal Design Process of Composite Structures S. MAKSIMOVIĆ (Yugoslavia)	237
A Preliminary Approach to Composite Beam Design Using FEM Analysis A. CORVI (Italy)	259
Index	277

*Number 4*

Vibrational Analysis of a Double-layer Composite Material Structure . . . . .	283
L. HOLLOWAY & A. M. FARHAT (UK)	
Thermal Joining of Carbon Fibre Reinforced PEEK Laminates . . . . .	305
W. J. CANTWELL, P. DAVIES, P. E. BOURBAN, P.-Y. JAR, H. RICHARD & H. H. KAUSCH (Switzerland)	
Nonlinear Oscillations of a Harmonically Excited Composite Structure . . . . .	323
B. BALACHANDRAN & A. H. NAYFEH (USA)	
Damage Evolution and Constitutive Behavior of Advanced Composites . . . . .	341
G. FRANTZISKONIS & S. P. JOSHI (USA)	
Book Review . . . . .	359
Announcements . . . . .	360

